

List of All Chemicals

P Cassia tora (Fabaceae)

Common name(s)

Sickle Senna

How used

Medicinal

*Unless otherwise noted all references are to Duke, James A. 1992. Handbook of phytochemical constituents of GRAS herbs and other economic plants. Boca Raton, FL. CRC Press.

| Chemical | Plant Part | Low PPM | High PPM | StdDev | *Reference |
|--|---|---------|----------|--------|------------|
| ALOE-EMODIN | Seed | -- | -- | | * |
| Activities (24) | | | | | |
| Antibacterial MIC=2-64 ug/ml | | | | | |
| Antiherpetic | | | | | |
| Antileukemic | | | | | |
| Antisalmonella | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. <i>Herbal Medicine - A Guide for Health-care Professionals</i> . The Pharmaceutical Press, London. 296pp. | | | | |
| Antiseptic MIC=2-64 ug/ml | | | | | |
| Antistaphylococcal MIC=2-64 ug/ml | | | | | |
| Antitumor 1 ug/mL | | | | | |
| Antiviral | | | | | |
| Arylamine-N-Acetyltransferase-Inhibitor | | | | | |
| Calcium-Antagonist (strong activity) | | | | | |
| Candidicide MIC=25-250 ug/ml | | | | | |
| Cathartic | Merck 11th Edition | | | | |
| Cytotoxic 20 ppm | | | | | |
| Estrogenic | | | | | |
| Fungicide MIC=25-250 ug/ml | | | | | |
| Genotoxic | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. | | | | |
| Laxative | | | | | |
| Mutagenic | | | | | |
| Pesticide | | | | | |
| Purgative ED50=>59.6 mg/kg orl mus | | | | | |
| Termitifuge | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. | | | | |
| Topoisomerase-II-Inhibitor 1 mM | Muller, S. O., Eckert, I., Lutz, W. K., Stopper, H. 1996. Genotoxicity of the Laxative Drug Components Emodin, Aloe-emodin and Danthron in Mammalian Cells: Topoisomerase II Mediated? <i>Mutat Res</i> , 371: 165-173. | | | | |
| Topoisomerase-II-Inhibitor IC50=>741 uM/ml | Muller, S. O., Stopper, H. 1999. Characterization of the Genotoxicity of Anthraquinones in Mammalian Cells. <i>Biochimica & Biophysica Acta</i> , 1428: 406-414. | | | | |
| Tuberculostatic | Pakistan Encyclopedia Planta Medica. 1986. | | | | |
| ANTHRONE | Seed | -- | -- | | * |
| Activities (1) | | | | | |
| Emetic | | | | | |
| ASH | Sprout Seedling | -- | 99000.0 | 0.92 | * |
| AURANTIOBTUSIN | Seed | -- | -- | | * |
| Activities (3) | | | | | |
| Aldose-Reductase-Inhibitor IC50=13.6 uM | | | | | |
| Antiaggregant | | | | | |
| Estrogenic | | | | | |
| CALCIUM | Sprout Seedling | -- | 28100.0 | 2.61 | * |
| Activities (28) | | | | | |
| AntiPMS 1 g/day | | | | | |

| | | | | | |
|------------------------------------|--|----|----------|------|---|
| Antianxiety | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Antiarrhythmic 500-1,500 mg | | | | | |
| Antiarthritic 1,000 mg/day | | | | | |
| Antiatherosclerotic 500 mg/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. | | | | |
| Anticlimacteric 1,000-1,500 mg/day | | | | | |
| Antidepressant | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Antidote (Aluminum) | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Antidote (Lead) | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Antihyperkinetic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Antihypertensive | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Antiinsomniac | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Antimenopausal 1,000-1,500 mg/day | | | | | |
| Antiobesity | | | | | |
| Antiosteoporotic 500-2,000 mg/day | | | | | |
| Antiperiodontic 750 mg/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. | | | | |
| Antirheumatic 1,000 mg/day | | | | | |
| Antistress 500-1,500 mg/day | | | | | |
| Antitic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Anxiolytic 500-1,500 mg/day | | | | | |
| Calcium-Channel-Blocker | | | | | |
| Diuretic | | | | | |
| Hypocholesterolemic 500 mg/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. | | | | |
| Hypotensive 1 g/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. | | | | |
| Laxative 1,000-1,200 mg | | | | | |
| Tranquilizer 500-1,500 mg/day | | | | | |
| Vasodilator | | | | | |
| CALCIUM | Seed | -- | 11700.0 | 1.39 | * |
| Activities (28) | | | | | |
| AntiPMS 1 g/day | | | | | |
| Antiallergic 500 mg/day | | | | | |
| Antianxiety | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Antiarrhythmic 500-1,500 mg | | | | | |
| Antiarthritic 1,000 mg/day | | | | | |
| Antiatherosclerotic 500 mg/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. | | | | |
| Anticlimacteric 1,000-1,500 mg/day | | | | | |
| Antidepressant | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Antidote (Aluminum) | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Antidote (Lead) | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Antihyperkinetic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Antihypertensive | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Antiinsomniac | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Antimenopausal 1,000-1,500 mg/day | | | | | |
| Antiobesity | | | | | |
| Antiosteoporotic 500-2,000 mg/day | | | | | |
| Antiperiodontic 750 mg/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. | | | | |
| Antirheumatic 1,000 mg/day | | | | | |
| Antistress 500-1,500 mg/day | | | | | |
| Antitic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Anxiolytic 500-1,500 mg/day | | | | | |
| Calcium-Channel-Blocker | | | | | |
| Diuretic | | | | | |
| Hypocholesterolemic 500 mg/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. | | | | |
| Hypotensive 1 g/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. | | | | |
| Laxative 1,000-1,200 mg | | | | | |
| Tranquilizer 500-1,500 mg/day | | | | | |
| Vasodilator | | | | | |
| CARBOHYDRATES | Sprout Seedling | -- | 726000.0 | 0.82 | * |
| CAROTIN | Seed | -- | -- | | * |
| CHRYSO-OBTUSIN | Seed | -- | -- | | * |
| Activities (1) | | | | | |
| Antiaggregant | | | | | |

Activities (2)

Fungicide Jeffery B. Harborne and H. Baxter, eds. 1983. *Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.* Taylor & Frost, London. 791 pp.
 Pesticide

CHRYSOPHANOL

Seed

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Activities (10)

Antibacterial Recently became Internat. J. Crude Drug Res. 28(1,2,3,4):1990, page 155.
 Antiseptic
 Calcium-Antagonist 5/6 aloëemodin
 Candidicide Recently became Internat. J. Crude Drug Res. 28(1,2,3,4):1990, page 155.
 Cathartic
 Hemostat
 Pesticide
 Pigment Jeffery B. Harborne and H. Baxter, eds. 1983. *Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.* Taylor & Frost, London. 791 pp.
 Purgative ED50=>500 mg/kg orl mus
 Termitifuge Jeffery B. Harborne and H. Baxter, eds. 1983. *Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.* Taylor & Frost, London. 791 pp.

CHRYSOPHANOL-1-BETA-GENTIOPIOSIDE

Seed

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*

COPPER

Seed

8.0

10.0

-0.44

*

Activities (12)

Antianemic
 Antiarthritic
 Antidiabetic 2-4 mg/day Werbach, M. 1993. *Healing with Food.* Harper Collins, New York, 443 pp.
 Antifatigue
 Antiinflammatory Werbach, M. 1993. *Healing with Food.* Harper Collins, New York, 443 pp.
 Antinociceptive Werbach, M. 1993. *Healing with Food.* Harper Collins, New York, 443 pp.
 Antiosteoporotic
 Cardioprotective
 Contraceptive Martindale's 28th
 Hypocholesterolemic Davies, S., and Stewart, A. 1990. *Nutritional Medicine.* Avon Books, New York. 509pp.
 Immunomodulator
 Schizophrenogenic Davies, S., and Stewart, A. 1990. *Nutritional Medicine.* Avon Books, New York. 509pp.

EMODIN

Seed

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Activities (58)

AGEs-Inhibitor IC50=118 uM
 Aldose-Reductase-Inhibitor IC50=15.9 uM
 Allergenic Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. *Herbal Medicine - A Guide for Health-care Professionals.* The Pharmaceutical Press, London. 296pp.
 AntiMRSA MIC 2-64 ug/ml
 Antiaggregant
 Antiangiogenic
 Antibacterial
 Anticytomegalovirus ED50=1.1 ug/ml
 Antifeedant Jacobson, M., *Glossary of Plant-Derived Insect Deterrents,* CRC Press, Inc., Boca Raton, FL, 213 p, 1990.
 Antiinflammatory 15 mg/kg
 Antileukemic Jeffery B. Harborne and H. Baxter, eds. 1983. *Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.* Taylor & Frost, London. 791 pp.
 Antilymphomic
 Antimutagenic
 Antineoplastic
 Antiplaque ED50=1.1 ug/ml
 Antiproliferant IC50=20-30 uM
 Antisarcomic
 Antiseptic
 Antispasmodic Williamson, E. M. and Evans, F. J. *Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed.* Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.

| | |
|---|--|
| Antitumor (Breast) | |
| Antulcer 15 mg/kg | |
| Antivaginitic | Tillotson, A. K. (with Abel, Jr., R., Tillotson, N.H., Bajracharya, V.M.B.). 2001. <i>The One Earth Herbal Sourcebook: Everything You Need to Know about Chinese, Western, and Ayurvedic Herbal Treatments</i> . Twin Streams, Kensington Publishing Corp. NY,NY. 596 pp |
| Antiviral ED50=1.1 ug/ml | |
| Antiviral EC50=1.1 | |
| CNS-Depressant 15 mg/kg ipr mus | |
| COX-2-Inhibitor | |
| Cathartic | Merck 11th Edition |
| Collagenase-Inhibitor | |
| IC50=40 uM | |
| Cytotoxic CD50=2.6 ug/ml | |
| Differentiator IC50=20-30 uM | |
| Estrogenic | |
| Genotoxic | |
| Gonadotropic | |
| Hypolipidemic | |
| Immunostimulant | |
| Immunosuppressant | |
| Leucocytogenic | |
| MMP-2-Inhibitor | |
| MMP-7-Inhibitor | |
| MMP-9-Inhibitor | |
| Mutagenic | |
| NO-Inhibitor IC50=60.7 uM | |
| PGE2-Inhibitor | |
| PTK-Inhibitor 10-100 uM | |
| PTK-Inhibitor IC50=19-37 uM | |
| Pesticide | |
| Prostaglandin-Synthesis-Inhibitor IC50=23 uM/ml | Mueller, S. O., Stopper, H. 1999. Characterization of the Genotoxicity of Anthraquinones in Mammalian Cells. <i>Biochimica & Biophysica Acta</i> , 1428: 406-414. |
| Protein-Kinase-C-Inhibitor IC50=25 uM | |
| Purgative ED50=>500 mg/kg orl mus | |
| Styptic | |
| Topoisomerase-II-Inhibitor 1 mM | Muller, S. O., Eckert, I., Lutz, W. K., Stopper, H. 1996. Genotoxicity of the Laxative Drug Components Emodin, Aloe-emodin and Danthon in Mammalian Cells: Topoisomerase II Mediated? <i>Mutat Res</i> , 371: 165-173. |
| Topoisomerase-II-Inhibitor IC50=7 uM/ml | Mueller, S. O., Stopper, H. 1999. Characterization of the Genotoxicity of Anthraquinones in Mammalian Cells. <i>Biochimica & Biophysica Acta</i> , 1428: 406-414. |
| Trichomonicide | |
| Tyrosine-Kinase-Inhibitor | |
| Vasodilator | |
| Vasorelaxant | |
| iNOS-Inhibitor | |

| | | | | | |
|-------|-----------------|---------|----------|-------|---|
| FAT | Seed | 33000.0 | 74000.0 | -1.01 | * |
| FAT | Plant | -- | 44000.0 | -0.11 | * |
| FIBER | Sprout Seedling | -- | 199000.0 | 1.24 | * |

Activities (15)

| | |
|------------------------------|--|
| Angiotensin-Receptor-Blocker | |
| Antidiabetic | |
| Antihypertensive | |
| Antiobesity | |
| Antitumor | Pizzorno, J.E. and Murray, M.T. 1985. <i>A Textbook of Natural Medicine</i> . John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antiulcer | Pizzorno, J.E. and Murray, M.T. 1985. <i>A Textbook of Natural Medicine</i> . John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Beta-Blocker | |
| Cancer-Preventive | Stitt, P. A. <i>Why George Should Eat Broccoli</i> . Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Cardioprotective | |
| Diuretic | |
| Hypocholesterolemic | |
| Hypotensive 10 g/man/day/orl | Pizzorno, J.E. and Murray, M.T. 1985. <i>A Textbook of Natural Medicine</i> . John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Hypouricemic | |
| Laxative | |
| Vasodilator | |

Activities (7)

Acetylcholinergic

| | |
|-----------------|---|
| Antiedemic | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.</i> Taylor & Frost, London. 791 pp. |
| Antihepatotoxic | Merck 11th Edition |
| Antiketotic | Merck 11th Edition |
| Antivaricose | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.</i> Taylor & Frost, London. 791 pp. |
| Hyperglycemic | Merck 11th Edition |
| Memory-Enhancer | Science News, 138: 189, 1990. |

| | | | | | |
|------|------|----|------|-------|---|
| IRON | Seed | -- | 50.0 | -0.47 | * |
|------|------|----|------|-------|---|

Activities (6)

| | |
|------------------------------------|---|
| Antiakathisic | Martindale's 29th |
| Antianemic | Martindale's 29th |
| Anticanker | |
| Anticheilitic | Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine.</i> Avon Books, New York. 509pp. |
| Antimennorrhaic 100 mg/day/wmn/orl | Pizzorno, J.E. and Murray, M.T. 1985. <i>A Textbook of Natural Medicine.</i> John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Prooxidant | |

| | | | | | |
|----------------------------|------|----|----|--|---|
| KAEMPFEROL-3-O-SOPHOROSIDE | Leaf | -- | -- | | * |
|----------------------------|------|----|----|--|---|

| | | | | | |
|-----------------|------|--------|--------|------|---|
| LIGNOCERIC-ACID | Seed | 3300.0 | 7400.0 | 0.43 | * |
|-----------------|------|--------|--------|------|---|

Activities (1)

Antihepatotoxic

| | | | | | |
|----------------|------|---------|---------|-------|---|
| LINOLENIC-ACID | Seed | 11913.0 | 26714.0 | -0.11 | * |
|----------------|------|---------|---------|-------|---|

| | | | | | |
|-----------|------|----|--------|------|---|
| MAGNESIUM | Seed | -- | 3180.0 | 0.09 | * |
|-----------|------|----|--------|------|---|

Activities (65)

AntiCFS

AntiLyme 400-1,000 mg

AntiMS

AntiPMS 400-800 mg/day/wmn/orl

AntiPMS 400-800 mg/day/wmn orl

AntiRaynaud's 280-350 mg/day

Antiaggregant 400 mg/day

Antialcoholic

Antianginal 400 mg/day

Werbach, M. 1993. *Healing with Food.* Harper Collins, New York, 443 pp.

Antianorectic

Davies, S., and Stewart, A. 1990. *Nutritional Medicine.* Avon Books, New York. 509pp.

Antianxiety 400 mg/day

Werbach, M. 1993. *Healing with Food.* Harper Collins, New York, 443 pp.

Antiarrhythmic 400 mg/day

Davies, S., and Stewart, A. 1990. *Nutritional Medicine.* Avon Books, New York. 509pp.

Antiarthritic

Pizzorno, J.E. and Murray, M.T. 1985. *A Textbook of Natural Medicine.* John Bastyr College Publications, Seattle, Washington (Looseleaf).

Antiasthmatic

Antiatherosclerotic 400 mg/day

Anticephalagic

Davies, S., and Stewart, A. 1990. *Nutritional Medicine.* Avon Books, New York. 509pp.

Anticlimacteric 500-750 mg/day

Facciola, S. 1998. *Cornucopia - A Source Book of Edible Plants.* Kampong Publications, Vista CA. 713 pp.

Anticonvulsant

Chalem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. *Syndrome X - The complete nutritional program to prevent and reverse insulin resistance.* John Wiley & Sons, New York. 272 pp. \$24.95

Anticorony 400 mg/day

Davies, S., and Stewart, A. 1990. *Nutritional Medicine.* Avon Books, New York. 509pp.

Antidepressant

Antidiabetic 400-800 mg/man/day

Antidysmenorrheic 100 mg 4 x/day

Werbach, M. 1993. *Healing with Food.* Harper Collins, New York, 443 pp.

Antientometriotic 500 mg/day

Antienteric

Antiepileptic 450 mg/day

Antifatigue

Antifibromyalgic 200-300 mg 3x/day

Antigastric

Antiglaucomic

Antihyperkinetic

Davies, S., and Stewart, A. 1990. *Nutritional Medicine.* Avon Books, New York. 509pp.

Antihypertensive

| | |
|--|--|
| Antiinflammatory 100 mg 4 x/day | Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp. |
| Antiinsomniac | Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine</i> . Avon Books, New York. 509pp. |
| Antilithic | Pizzorno, J.E. and Murray, M.T. 1985. <i>A Textbook of Natural Medicine</i> . John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antimastalgic | Pizzorno, J.E. and Murray, M.T. 1985. <i>A Textbook of Natural Medicine</i> . John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antimenopausal 500-750 mg/day | |
| Antimigraine 200 mg/day/man | Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp. |
| Antimiral-valve-prolapse | |
| Antinephrolytic | |
| Antineurotic | Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine</i> . Avon Books, New York. 509pp. |
| Antosteoporotic 500-1,000 mg/day/wmn/orl | |
| Antiplateau 500-1,000 mg/day | |
| Antiretinopathic 400 mg/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. <i>Syndrome X - The complete nutritional program to prevent and reserve insulin resistance</i> . John Wiley & Sons, New York. 272 pp. \$24.95 |
| Antispasmodic | |
| Antispasmophilic 500 mg/day | Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp. |
| Antistress 500-750 mg/day | |
| Antistroke 400 mg/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. <i>Syndrome X - The complete nutritional program to prevent and reserve insulin resistance</i> . John Wiley & Sons, New York. 272 pp. \$24.95 |
| Antisyndrome-X 400 mg/man/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. <i>Syndrome X - The complete nutritional program to prevent and reserve insulin resistance</i> . John Wiley & Sons, New York. 272 pp. \$24.95 |
| Anxiolytic 500-750 mg/day | |
| CNS-Depressant | Facciola, S. 1998. <i>Cornucopia - A Source Book of Edible Plants</i> . Kampong Publications, Vista CA. 713 pp. |
| Calcium-Antagonist | |
| Cardioprotective | |
| Diuretic | |
| Hypocholesterolemic 400 mg/day | Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp. |
| Hypotensive 260-500 mg/day | |
| Immunomodulator | |
| Insulinogenic 400 mg/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. <i>Syndrome X - The complete nutritional program to prevent and reserve insulin resistance</i> . John Wiley & Sons, New York. 272 pp. \$24.95 |
| Laxative 300-500 mg/day | |
| Litholytic | |
| Myorelaxant 100 mg 4 x/day | Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp. |
| Neurotransmitter | |
| Tranquilizer 500-750 mg/day | |
| Uterorelaxant 100 mg 4 x/day | Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp. |
| Vasodilator | |

MANGANESE

Seed -- 24.0 -0.37 *

Activities (14)

| | |
|---------------------------------|--|
| AntiPMS | |
| Antialcoholic | Forest H. Nielsen, USDA, Grand Forks, various publications. |
| Antianemic | Martindale's 28th |
| Antiarthritic | |
| Antidiabetic 3-5 mg/day | Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp. |
| Antidiabetic 10-30 mg/man/day | |
| Antidiscotic | Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine</i> . Avon Books, New York. 509pp. |
| Antidyskinetic | Martindale's 28th |
| Antiepileptic 450 mg/day | Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp. |
| Antosteoporotic | |
| Antitotic | Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine</i> . Avon Books, New York. 509pp. |
| Antioxidant | |
| Antisyndrome-X 10-30 mg/man/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. <i>Syndrome X - The complete nutritional program to prevent and reserve insulin resistance</i> . John Wiley & Sons, New York. 272 pp. \$24.95 |
| Hypoglycemic 10-30 mg/man/day | |

MANNITOL

Plant -- -- -- *

Activities (18)

| | |
|---------------|--|
| Allergenic | Martindale's 29th |
| Analgesic | |
| Anthelmintic | ANON. 1948-1976. <i>The Wealth of India raw materials</i> . Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| AntiReye's | Martindale's 29th |
| Antiglaucomic | Martindale's 28th |

| | |
|---------------|--|
| Antimutagenic | |
| Antinephritic | Martindale's 29th |
| Antioxidant | Jim Duke's personal files. |
| Antiradicular | |
| Antispasmodic | ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes. |
| Diuretic | Merck 11th Edition |
| Emetic | Martindale's 28th |
| Flatugenic | Martindale's 29th |
| Laxative | |
| Nephrotoxic | Martindale's 29th |
| Pesticide | |
| Sweetener | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |

| | | | | | |
|------------------|-------|---------|---------|-------|---|
| MYRICYL-ALCOHOL | Plant | -- | -- | -- | * |
| NOR-RUBROFUSARIN | Seed | -- | -- | -- | * |
| OBTUSIFOLIN | Seed | -- | -- | -- | * |
| OBTUSIN | Seed | -- | -- | -- | * |
| OLEIC-ACID | Seed | 13068.0 | 29304.0 | -0.74 | * |

Activities (18)

| | |
|----------------------------------|---|
| 5-Alpha-Reductase-Inhibitor | |
| Allergenic | |
| Alpha-Reductase-Inhibitor | |
| Anemiagenic | |
| Antialopeptic | |
| Antiandrogenic | |
| Antiinflammatory IC50=21 uM | |
| Antileukotriene-D4 IC50=21 uM | |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Choleretic 5 ml/man | |
| Dermatitigenic | |
| FLavor FEMA 1-30 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Hypocholesterolemic | Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.) |
| Insectifuge | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| Irritant | Merck 11th Edition |
| Percutaneostimulant | Seki, T., Toeda, C., Kawaguchi, T., Juni, K., Sugabayashi, K., and Morimoto, Y. 1990. Enhanced Transdermal Delivery of Zidovudine in Rats and Human Skin. Chem. Pharm. Bull. 38(11): 3086-3089, 1990. |
| Perfumery | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Propecic | |

| | | | | | |
|---------------|------|--------|--------|------|---|
| PALMITIC-ACID | Seed | 2211.0 | 4958.0 | -0.6 | * |
|---------------|------|--------|--------|------|---|

Activities (13)

| | |
|-----------------------------|--|
| 5-Alpha-Reductase-Inhibitor | |
| Antialopectic | |
| Antiandrogenic | |
| Antifibrinolytic | Economic & Medicinal Plant Research, 1: 53. |
| Antioxidant IC40=60 | |
| FLavor FEMA 1 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Hemolytic | Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp. |
| Hypercholesterolemic | Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.) |
| Lubricant | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Nematicide | Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp. |
| Pesticide | |
| Propecic | |
| Soap | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |

| | | | | | |
|------------|-----------------|----|--------|-------|---|
| PHOSPHORUS | Sprout Seedling | -- | 5700.0 | -0.29 | * |
|------------|-----------------|----|--------|-------|---|

Activities (4)

| | |
|------------------|--|
| Antiosteoporotic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
|------------------|--|

| | |
|------------------------------------|--|
| Immunostimulant | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Osteogenic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| PHYSCION | Seed |
| | -- |
| | -- |
| | * |
| Activities (5) | |
| Antiseptic | |
| Calcium-Antagonist 5/6 aloemodin | |
| Cathartic | |
| Pesticide | |
| Purgative ED50=>500 mg/kg orl mus | |
| POTASSIUM | Seed |
| | -- |
| | 12700.0 |
| | 0.01 |
| | * |
| Activities (14) | |
| Angiotensin-Receptor-Blocker | |
| Antiarrhythmic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antidepressant | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antifatigue | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antihypertensive | |
| Antispasmodic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antistroke | |
| Anxiolytic | |
| Beta-Blocker | |
| Cardioprotective 3,000-5,000 mg | |
| Cardiotoxic 18,000 mg/man/day | |
| Diuretic | |
| Hypotensive | |
| Vasodilator | |
| PROTEIN | Sprout Seedling |
| | -- |
| | 132000.0 |
| | -1.13 |
| | * |
| PROTEIN | Seed |
| | 182000.0 |
| | 360000.0 |
| | 1.12 |
| | * |
| RHEIN | Seed |
| | -- |
| | -- |
| | * |
| Activities (18) | |
| Antibacterial | Recently became Internat. J. Crude Drug Res. 28(1,2,3,4):1990, page 155. |
| Anticarcinomic | |
| Anticariogenic | |
| Anticytomegalovirus ED50=1.1 ug/ml | |
| Antineoplastic | |
| Antiplaque ED50=0.6 ug/ml | |
| Antiseptic | |
| Antitumor | |
| Antiviral EC50=1.1 | |
| Antiviral ED50=0.61 ug/ml | |
| Calcium-Antagonist 9/10 aloemodin | |
| Candidicide | Recently became Internat. J. Crude Drug Res. 28(1,2,3,4):1990, page 155. |
| Cathartic | |
| Cytotoxic CD50=3.4 ug/ml | |
| Fungicide | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Pesticide | |
| Proteinase-Inhibitor | |
| Purgative ED50=97.5 mg/kg orl mus | |
| RUBROFUSARIN | Seed |
| | -- |
| | -- |
| | * |
| Activities (5) | |
| Antiestrogenic | |
| Antileukemic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| CNS-Depressant | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Cytotoxic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Pigment | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |

| | | | | | |
|--|--|--------|--------|-------|---|
| RUBROFUSARIN-GENTIOBIOSIDE | Seed | -- | -- | | * |
| SITOSTEROL | Seed | -- | -- | | * |
| SODIUM | Seed | -- | 59.0 | -0.62 | * |
| Activities (1) | | | | | |
| Hypertensive | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| STEARIC-ACID | Seed | 2508.0 | 5624.0 | -0.44 | * |
| Activities (8) | | | | | |
| 5-Alpha-Reductase-Inhibitor | | | | | |
| Cosmetic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | | |
| FLavor FEMA 2-4,000 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
| Hypocholesterolemic | Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.) | | | | |
| Lubricant | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | | |
| Perfumery | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
| Propeptic | | | | | |
| Suppository | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | | |
| TORACHRYSONE | Seed | -- | -- | | * |
| TORALACTONE | Seed | -- | -- | | * |
| Activities (6) | | | | | |
| AntiMRSA MIC=2-64 ug/ml | | | | | |
| Antiestrogenic | | | | | |
| Antiseptic MIC=2-64 ug/ml | | | | | |
| Antistaphylococcal MIC=2-64 ug/ml | | | | | |
| Bactericide MIC=2-64 ug/ml | | | | | |
| Pesticide | | | | | |
| ZINC | Seed | -- | 31.0 | -0.4 | * |
| Activities (77) | | | | | |
| ACE-Inhibitor | | | | | |
| Analgesic | | | | | |
| AntiBPH 25-60 mg/day | | | | | |
| AntiCrohn's | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| AntiHIV | | | | | |
| Antiacne 135 mg/day | | | | | |
| Antiacrodermatitic 8-34 mg/day/orl/chd | Martindale's 29th | | | | |
| Antialcoholic | | | | | |
| Antialopeptic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Antialzheimeran 50 mg/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. | | | | |
| Antiangiogenic | | | | | |
| Antianorexic | Martindale's 29th | | | | |
| Antiarthritic 50 mg/3x/day/orl/man | | | | | |
| Anticanker 100 mg/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. | | | | |
| Anticataract 30 mg/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. | | | | |
| Anticoeliac | Martindale's 28th | | | | |
| Anticold 50 mg | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Anticoltic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Anticorony 30 mg/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 | | | | |
| Antidandruff | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Antidementia | | | | | |
| Antidiabetic 30 mg/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 | | | | |
| Antidote (Cadmium) | Let's Live, May 1989. | | | | |
| Antidysgeuzic | | | | | |
| Antieczemic 150 mg/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. | | | | |
| Antiencephalopathic | Martindale's 29th | | | | |
| Antiepileptic 100 mg/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. | | | | |
| Antifibrotic 30 mg | | | | | |

| | |
|--|--|
| mg/3x/day/man | |
| Antihangover 15 mg | |
| Antiherpetic? 25-60 mg/day | |
| Antiimpotence | Martindale's 29th |
| Antiinfective 50 mg/day | Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp. |
| Antiinfertility 60 mg/day | Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp. |
| Antiinsomniac | Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine</i> . Avon Books, New York. 509pp. |
| Antilepric | Martindale's 29th |
| Antileukonychic | |
| Antilymphomeric | |
| Antimaculitic | |
| Antimetastatic | |
| Antineuropathic | |
| Antinyctalopic | |
| Antiobesity 30 mg/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. <i>Syndrome X - The complete nutritional program to prevent and reserve insulin resistance</i> . John Wiley & Sons, New York. 272 pp. \$24.95 |
| Antosteoporotic | |
| Antiperiodontic | |
| Antiplaque | Martindale's 29th |
| Antiprolactin | Pizzorno, J.E. and Murray, M.T. 1985. <i>A Textbook of Natural Medicine</i> . John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antiprostatic 50 mg/man/day/orl | Pizzorno, J.E. and Murray, M.T. 1985. <i>A Textbook of Natural Medicine</i> . John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antirheumatic | Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine</i> . Avon Books, New York. 509pp. |
| Antiseptic 50 mg/day | Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp. |
| Antispare-Tire 30 mg/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. <i>Syndrome X - The complete nutritional program to prevent and reserve insulin resistance</i> . John Wiley & Sons, New York. 272 pp. \$24.95 |
| Antistomatitic 50 mg/man/3x/day | Martindale's 28th |
| Antisyndrome-X 30 mg/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. <i>Syndrome X - The complete nutritional program to prevent and reserve insulin resistance</i> . John Wiley & Sons, New York. 272 pp. \$24.95 |
| Antitinnitin 60-120 mg/day | Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp. |
| Antitriglyceride 30 mg/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. <i>Syndrome X - The complete nutritional program to prevent and reserve insulin resistance</i> . John Wiley & Sons, New York. 272 pp. \$24.95 |
| Antiulcer 50 mg/3x/day/man | Martindale's 28th |
| Antiulcer 88 mg/rat/day/15 days | |
| Antiviral? | Martindale's 29th |
| Astringent | Martindale's 28th |
| Collagenic | |
| Copper-Antagonist | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. <i>Syndrome X - The complete nutritional program to prevent and reserve insulin resistance</i> . John Wiley & Sons, New York. 272 pp. \$24.95 |
| Deodorant | Martindale's 29th |
| Detoxicant (Alcohol) | |
| Ergogenic | |
| Hypotensive 30 mg/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. <i>Syndrome X - The complete nutritional program to prevent and reserve insulin resistance</i> . John Wiley & Sons, New York. 272 pp. \$24.95 |
| Immunomodulator | |
| Immunostimulant | Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine</i> . Avon Books, New York. 509pp. |
| Immunosuppressant 300 mg/day/6 wks/orl/man | Martindale's 29th |
| Insulinogenic 30 mg/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. <i>Syndrome X - The complete nutritional program to prevent and reserve insulin resistance</i> . John Wiley & Sons, New York. 272 pp. \$24.95 |
| Leptogenic 30-60 mg/man/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. <i>Syndrome X - The complete nutritional program to prevent and reserve insulin resistance</i> . John Wiley & Sons, New York. 272 pp. \$24.95 |
| Mucogenic | Li, K.M. Effect of zinc sulphate on acetic acid-induced gastric ulceration in rats. <i>J. Pharm. Pharmacol.</i> 42: 657-659, 1990. |
| NF-kB-Inhibitor | |
| Pesticide | |
| Spermigenic 60 mg/day | Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp. |
| Testosteronogenic 60 mg/day | Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp. |
| Trichomonicide | Martindale's 29th |
| Vulnerary | Martindale's 28th |